Encryption

- 1. Split into working groups of 3 or 4 students
- 2. Each group is assigned one of the topics (by consensus or randomization) described on the following slides
- 3. Every group prepares a digital presentation of 15-20min on their topic
- 4. At least 2 days before the presentation a PDF export of the slides is uploaded on Moodle (once per group)
- 5. All groups present their topic to all their classmates who can ask questions afterwards

Presentation Format

- 15-20 minutes presentation
 - o every group member has to present for at least 5min
- ~5 minutes Q&A
- i The presentation can be written and held in

 i or based on each group's own preference. Just do not mix English and German slides. English slides but presentation held in German is fine.

Presentation Topics

- 1. WEP **FMS** & Chopchop
- 2. WPA2 \neq KRACK
- 3. PGP \neq EFAIL
- 4. SSL/TLS ≠ POODLE & DROWN
- 5. BitLocker \neq TCG Opal
- 6. PDF ← Breaking Encryption & Signatures
- The links provided are some documentation/specification (if publicly available) as well as vulnerability research papers. Each group is supposed to gather additional references as needed.

Presentation Structure

- 1. Introduction of the protocol/system
- 2. Explanation of the attack(s)
- 3. Mitigation of the attack(s)
- 4. Recommendations or related information
- lease provide a list of sources referred to in the presentation as the final slide.

Timeline

- Tue, 15.11.2021 (today)
 - Group building & topic assignment
- Sun, 04.12.2021 (+3 weeks)
 - All PDF-exported presentations uploaded on Moodle
- Tue, 06.12.2021 (+2 days)
 - All groups present their topics between 15:00 and 17:30